

WHAT IS CLAIMED IS:

1. A mode switch of a video cassette recorder (VCR), comprising:

a main printed circuit board having a contact point mode pattern exposed on an upper surface thereof; and

a rotor rotatably mounted on the main printed circuit board and having brushes mounted thereon, wherein the brushes contact the contact point mode pattern, and wherein the rotor is configured to be engaged to a moving part of the VCR such that the rotor is rotated to different orientations depending on the operating mode of the VCR.
2. The mode switch of claim 1, wherein an engaging hole is formed on the main printed circuit board, and wherein the rotor includes at least one engaging hook configured to engage the engaging hole to rotatably mount the rotor on the main printed circuit board.
3. The mode switch of claim 1, wherein the main printed circuit board includes conductive patterns on both surfaces.
4. The mode switch of claim 1, wherein ends of the brushes are arranged substantially along a radial line of the rotor.
5. The mode switch of claim 4, wherein the contact point mode patterns are arranged so that when the rotor is arranged in different rotational orientations, different portions of the contact point mode pattern will be electrically coupled to each other.

6. The mode switch of claim 1, wherein the contact point mode pattern comprises a plurality of concentric rings of conductive patterns formed on the upper surface of the main printed circuit board.

7. The mode switch of claim 6, wherein the each of the brushes corresponds to a different ring of the conductive patterns.

8. The mode switch of claim 7, wherein all of the brushes are electrically coupled to one another.

9. A mode switch of a video cassette recorder (VCR), comprising:
a main printed circuit board having a contact point mode pattern exposed on an upper surface thereof;
a plurality of brushes mounted on the main printed circuit board, wherein the brushes are located over the contact point mode pattern and wherein the brushes can be deflected to contact the contact point mode pattern; and
a rotor rotatably mounted on the main printed circuit board and having a plurality of protrusions configured to deflect the brushes, wherein the protrusions are patterned such that different combinations of the brushes are deflected depending on the rotational orientation of the rotor.

10. The mode switch of claim 9, wherein the rotor is configured to be engaged to a moving part of the VCR such that the rotor is rotated to different orientations depending on the operating mode of the VCR.

11. The mode switch of claim 9, wherein the plurality of brushes are all electrically coupled to one another.

12. The mode switch of claim 9, wherein an engaging hole is formed on the main printed circuit board, and wherein the rotor includes at least one engaging hook configured to engage the engaging hole to rotatably mount the rotor on the main printed circuit board.

13. The mode switch of claim 9, wherein the contact point mode pattern comprises a plurality of concentric rings of conductive patterns formed on the upper surface of the main printed circuit board.

14. The mode switch of claim 13, wherein the each of the brushes corresponds to a different ring of the conductive patterns.